

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2085_01_s_2013_7				
Comment Code					
Inspector Comment					
The O&M Manual is available at the office.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2085_01_s_2013_9				
Comment Code					
Inspector Comment					
Flood fighting supplies are available at the River Club.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	14	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Flood Preparedness & Training				o	
					o	
DWR ID	DWR_RD2085_01_s_2013_14					
Comment Code						
Inspector Comment						
The LMA has a flood fighting plan and training.						

No Photos

LM Start	0.12	Rating **	A/W	Issue No.	19
LM End	0.47	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.719052 °	37.723246 °
				-121.302928 °	-121.299492 °
DWR ID	DWR_RD2085_01_f_2015_19				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
Disking on the levee shoulder. Make sure the water drains evenly to the slopes.					

Photo 1 of 1 : SP_2018_RD2085_113_19_20180305_00016.jpg



View of the disking on the levee crown shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	0.53	Rating **	A/W	Issue No.	52
LM End	0.53	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.723415 °	37.723415 °
				-121.298596 °	-121.298596 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:52493
DS_ID:20677
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: Pipe has been removed by LMA. Previous: Pipe abandoned. Erosion around pipe on WS slope. Pipe severely corroded. Pier badly damaged.
FIELD_STRUCT_DESC: *REMOVED* 14-inch steel drainage pipe through the levee, 4.5 feet below the crown. Pump on pile structure in ditch on the landside (LS). Siphon breaker in corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Pipe removed by LMA. (Permit Application No. T2013179, 2014 - Surinder Sandhu, submitted to CVFPB. Permit was not needed per CVFPB review). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 0.47)].
FS Date: 9/5/2013

LM Start	0.53	Rating **	A/W	Issue No.	52 (cont)
LM End	0.53	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_SP_2018_52493_62262.jpg



(Pipe removed by LMA) Pipe on WS with erosion into levee slope.

Photo 2 of 3 : UCIP_SP_2018_52493_62261.jpg




Pipe removed from WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

Photo 3 of 3 : UCIP_SP_2018_52493_62260.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder was removed by LMA.

Photo 1 of 4 : SP_2018_RD2085_113_1_20180305_00001.jpg



Looking upstream at the erosion site. Note the dense vegetation and the trees at the upstream of the erosion.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	1.15	Rating **	M	Issue No.	1 (cont)	
LM End	1.26	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.715996 °	37.715996 °	
				-121.291229 °	-121.291229 °	
DWR ID	RD2085U01RM62.43					
Comment Code						
Inspector Comment						
11/02/2017: The erosion was reported to DWR by LMA. The site is located at the outside of a slight river bend. Both levee slope and river bank are covered with dense vegetation. [2017 Site ID:RD2085U01RM62.43]						

LM Start	1.15	Rating **	M	Issue No.	1 (cont)
LM End	1.26	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2018_RD2085_113_1_20180305_00002.jpg



Looking downstream at the erosion site.

Photo 3 of 4 : SP_2018_RD2085_113_1_20180305_00003.jpg



Close view of the erosion.

LM Start	1.15	Rating **	M	Issue No.	1 (cont)
LM End	1.26	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP_2018_RD2085_113_1_20180305_00004.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	1.35	Rating **	A/W	Issue No.	53 (cont)	
LM End	1.35	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.714409 °	37.714409 °	
				-121.289479 °	-121.289479 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19384 DS_ID:20678 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 12-inch steel drainage pipe through the levee, 3 feet below the crown. Pump mounted on pile structure in ditch on the landside (LS). Steel walkway with handrails to the pump structure. Gate valve and siphon breaker in a 12-inch steel riser on the waterside (WS) shoulder. (Permit No. 8189, 1972 - Reclamation District No. 2085). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 1.28)]. FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_SP_2018_19384_32926.jpg



Pipe, siphon breaker, and gate valve on WS slope.

LM Start	1.41	Rating **	M	Issue No.	55
LM End	1.41	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714049 °	37.714049 °
				-121.288426 °	-121.288426 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41351 DS_ID:20679 EP_NO: 3975 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe abandoned and should be done so properly. Large hole in ground over pipe on WS berm. Pipe rusted through on WS at river bank. No connection to pump on LS toe. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel drainage pipe through the levee, 4 feet below the crown. Steel plate over pipe end at pump station on the landside (LS) toe. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. (Permit No. 3975, 1962 - Glenn West Trust). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 1.35)]. FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_SP_2018_41351_62268.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	1.63	Rating **	A/W	Issue No.	43
LM End	1.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.712676 °	37.712676 °
				-121.284732 °	-121.284732 °
DWR ID	DWR_RD2085_01_s_2017_43				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	1.79	Rating **	A/W	Issue No.	39
LM End	1.79	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.711456 °	37.711456 °
				-121.282397 °	-121.282397 °
DWR ID	DWR_RD2085_01_s_2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee.					

Photo 1 of 1 : SP_2018_RD2085_113_39_20180305_00028.jpg



View of the rodent burrows on the landside levee slope.

LM Start	2.37	Rating **	A	Issue No.	35
LM End	2.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705775 °	37.705775 °
				-121.275268 °	-121.275268 °
DWR ID	DWR_RD2085_01_s_2018_35				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation control.					

Photo 1 of 1 : SP_2018_RD2085_113_35_20180309_00074.jpg



View of the acceptable vegetation on the levee slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	2.56	Rating **	A/W	Issue No.	2
LM End	2.58	Issue Type +	Ma	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR Erosion Survey		37.703094 °	37.703094 °	
			-121.274894 °	-121.274894 °	
DWR ID	RD2085U01RM66.5				

Comment Code

Inspector Comment

10/04/2017: The erosion has progressed significantly toward the levee toe.
 07/08/2016: No significant change observed.
 09/10/2015: No significant change observed. Signs of animal activity are present.
 09/10/2014: No significant change observed.
 09/20/2013: No significant change in erosion observed. More vegetation at the site.
 12/04/2012: The erosion has progressed remarkably toward levee, extended to the up-and downstream of the original pocket erosion. Trees and dense bush are present at the site. Animal burrow holes are visible, and possibly can cause seepage.
 09/22/2010: No significant change observed. There is little visibility due to seasonal grass on the berm and slope.
 08/18/2009: Site is located on berm; pocket erosion has developed; the site is covered in dense vegetation; there are several relief wells on the landside of the levee; site is Not Rated because berm width is greater than 30 feet; site should be monitored to keep track of erosion progress. [2017 Site ID:RD2085U01RM66.5]

LM Start	2.56	Rating **	A/W	Issue No.	2 (cont)
LM End	2.58	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP_2018_RD2085_113_2_20180305_00005.jpg



Close view of the erosion. Note the dense vegetation at the site.

Photo 2 of 4 : SP_2018_RD2085_113_2_20180305_00006.jpg



Close view of the erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	2.57	Rating **	A/W	Issue No.	48	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.703094 °		°
				-121.274894 °		°
DWR ID	DWR_RD2085_01_f_2017_48					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:105						
Site Designation:FSRP-13-55						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/8/2017						
Notes:						

LM Start	2.57	Rating **	A/W	Issue No.	48 (cont)
LM End		Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2018_105_262.jpg



Photo 2 of 3 : LEVAL_SP_2018_105_271.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	2.57	Rating **	A/W	Issue No.	48 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			37.703094 °		°
				-121.274894 °		°
DWR ID	DWR_RD2085_01_f_2017_48					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:105						
Site Designation:FSRP-13-55						
Repair Type: Erosion						
Rating:Serious						
Field Date:6/8/2017						
Notes:						

Photo 3 of 3 : LEVAL_SP_2018_105_272.jpg



LM Start	2.62	Rating **	M	Issue No.	4
LM End	2.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.702340 °	37.698192 °
				-121.275081 °	-121.277673 °
DWR ID	DWR_RD2085_01_f_2017_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Vegetation at the toe limits visibility.					

Photo 1 of 1 : SP_2018_RD2085_113_4_20180305_00010.jpg



View of the vegetation at the levee toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	2.90	Rating **	A/W	Issue No.	21
LM End	2.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698700 °	37.698700 °
				-121.277199 °	-121.277199 °
DWR ID	DWR_RD2085_01_f_2015_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
This area should be monitored for possible rodent activity.					

No Photos

LM Start	3.27	Rating **	A/W	Issue No.	42
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.694085°	37.694085°
				-121.277378°	-121.277378°
DWR ID	DWR_RD2085_01_s_2017_42				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	58
LM End	3.30	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.693618 °	37.693618 °
				-121.277639 °	-121.277639 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel storm drainage pipe through the levee, 4 feet below the crown. T-post marks location of pipe at the landside (LS) toe. Steel plate welded over pipe on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 11, 1968, (HLM 3.34), As-Built Drawings available, DWG 7-4-1685]. FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_SP_2018_19433_32990.jpg



T-post marking pipe end on LS toe. 10-inch pipe debris on LS toe.

LM Start	3.30	Rating **	M	Issue No.	58 (cont)
LM End	3.30	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_19433_32989.jpg



Pipe visible on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.30	Rating **	M	Issue No.	58 (cont)	
LM End	3.30	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.693618 °	37.693618 °	
				-121.277639 °	-121.277639 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19433 DS_ID:20693 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel storm drainage pipe through the levee, 4 feet below the crown. T-post marks location of pipe at the landside (LS) toe. Steel plate welded over pipe on the waterside (WS) slope. [Additional Reference(s): USACE San Joaquin O&M Manual 11, 1968, (HLM 3.34), As-Built Drawings available, DWG 7-4-1685]. FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_SP_2018_19433_32988.jpg



Pipe visible on WS slope. Steel plate welded over end.

LM Start	3.34	Rating **	N	Issue No.	30
LM End	3.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.693019 °	37.693019 °
				-121.277892 °	-121.277892 °
DWR ID	DWR_RD2085_01_s_2014_30				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.55	Rating **	A/W	Issue No.	44
LM End	3.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690418 °	37.690418 °
				-121.276815 °	-121.276815 °
DWR ID	DWR_RD2085_01_s_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
LMA has bait stations on the levee slope.					

No Photos

LM Start	3.57	Rating **	A/W	Issue No.	45
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.690161 °	37.690161 °
				-121.276543 °	-121.276543 °
DWR ID	DWR_RD2085_01_s_2016_45				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : SP_2018_RD2085_113_45_20180305_00029.jpg



View of the rodent burrows on the landside levee slope. Fall 2016

LM Start	3.57	Rating **	A/W	Issue No.	45 (cont)
LM End	3.57	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2018_RD2085_113_45_20180305_00030.jpg



View of the rodent burrows on the landside levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.68	Rating **	A/W	Issue No.	51
LM End	3.82	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.688570 °	37.686620 °	
			-121.276450 °	-121.276790 °	

DWR ID DWR_RD2085_01_f_2017_51

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:106

Site Designation:DWR_RD2085_01_R_2012_01

Repair Type: Erosion

Rating:Critical

Field Date:6/8/2017

Notes: Adjusted starting and ending points for this site. Site has been repaired.

LM Start	3.68	Rating **	A/W	Issue No.	51 (cont)
LM End	3.82	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL_SP_2018_106_238.jpg



Photo 2 of 3 : LEVAL_SP_2018_106_244.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.68	Rating **	A/W	Issue No.	51 (cont)	
LM End	3.82	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			37.688570 °		37.686620 °
				-121.276450 °		-121.276790 °
DWR ID	DWR_RD2085_01_f_2017_51					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:106						
Site Designation:DWR_RD2085_01_R_2012_01						
Repair Type: Erosion						
Rating:Critical						
Field Date:6/8/2017						
Notes: Adjusted starting and ending points for this site. Site has been repaired.						

Photo 3 of 3 : LEVAL_SP_2018_106_245.jpg



LM Start	3.71	Rating **	A/W	Issue No.	25
LM End	3.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.688216 °	37.688216 °
				-121.276603 °	-121.276603 °
DWR ID	DWR_RD2085_01_f_2015_25				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Control levee access to prevent damage to levee slopes by vehicle.					

Photo 1 of 1 : SP_2018_RD2085_113_25_20180305_00018.jpg



View of the waterside levee slope damaged by vehicle.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.74	Rating **	A/W	Issue No.	26
LM End	3.74	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687841 °	37.687841 °
				-121.276678 °	-121.276678 °
DWR ID	DWR_RD2085_01_f_2015_26				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Area should be maintained to prevent further levee damage.					

Photo 1 of 1 : SP_2018_RD2085_113_26_20180305_00019.jpg



View of the foot path on the levee slope.

LM Start	3.78	Rating **	M	Issue No.	46
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.687253 °	37.687253 °
				-121.276780 °	-121.276780 °
DWR ID	DWR_RD2085_01_s_2016_46				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD2085_113_46_20180305_00031.jpg



View of the tire tracks on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.80	Rating **	A/W	Issue No.	60
LM End	3.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °
				-121.276838 °	-121.276838 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12 feet below the crown. Slide gate in concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. Two concrete cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.71)]. FS Date: 9/5/2013 9:49:55 AM					

Photo 1 of 3 : UCIP_SP_2018_19436_32997.jpg



Slide gate in Concrete riser on WS shoulder.

LM Start	3.80	Rating **	A/W	Issue No.	60 (cont)
LM End	3.80	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_19436_32996.jpg



Concrete headwall off LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	3.80	Rating **	A/W	Issue No.	60 (cont)	
LM End	3.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.686976 °	37.686976 °	
				-121.276838 °	-121.276838 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:19436 DS_ID:20683 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch by 30-inch reinforced concrete box drainage culvert through the levee, 12 feet below the crown. Slide gate in concrete riser on the waterside (WS) slope. Concrete U-shaped headwalls on both ends. Flap gate on the WS end. Two concrete cutoff walls. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 3.71)]. FS Date: 9/5/2013 9:49:55 AM						

Photo 3 of 3 : UCIP_SP_2018_19436_32995.jpg



Concrete U-shaped headwall on WS slope.

LM Start	3.86	Rating **	A/W	Issue No.	36
LM End	3.91	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.686059 °	37.685340 °
				-121.276745 °	-121.276594 °
DWR ID	DWR_RD2085_01_f_2016_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Area should be monitored for possible rodent activity.					

Photo 1 of 1 : SP_2018_RD2085_113_36_20180305_00027.jpg



View of the rodent holes on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	4.15	Rating **	A/W	Issue No.	34
LM End	4.15	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.682495 °	37.682495 °
				-121.274169 °	-121.274169 °
DWR ID	DWR_RD2085_01_f_2016_34				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes were repaired and the area should be monitored for possible rodent activity.					

Photo 1 of 1 : SP_2018_RD2085_113_34_20180305_00026.jpg



View of the rodent holes on the levee slope.

LM Start	4.46	Rating **	N	Issue No.	32
LM End	4.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.681605 °	37.681605 °
				-121.268882 °	-121.268882 °
DWR ID	DWR_RD2085_01_s_2012_32				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD2085_113_32_20180305_00023.jpg



11/03/2011 Large stump on landside slope.

LM Start	5.04	Rating **	A/W	Issue No.	3
LM End	5.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.677735 °	37.677735 °
				-121.269132 °	-121.269132 °
DWR ID	DWR_RD2085_01_f_2017_3				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
Recommend removing volunteer tree.					

Photo 1 of 1 : SP_2018_RD2085_113_3_20180305_00009.jpg



View of the volunteer tree at the levee toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	5.22	Rating **	A/W	Issue No.	62
LM End	5.22	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °
				-121.269281 °	-121.269281 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23060					
DS_ID:20686					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: 30-inch reinforced concrete drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Two corrugated metal cutoff walls. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 5.12)].					
FS Date: 9/5/2013					

Photo 1 of 3 : UCIP_SP_2018_23060_39184.jpg



Cuts in pavement off LS toe good indicator of pipe location.

LM Start	5.22	Rating **	A/W	Issue No.	62 (cont)
LM End	5.22	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_23060_39183.jpg



Concrete U-shaped headwall visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	5.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	5.22	Rating **	A/W	Issue No.	62 (cont)	
LM End	5.22	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.675271 °	37.675271 °	
				-121.269281 °	-121.269281 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:23060 DS_ID:20686 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: FIELD_STRUCT_DESC: 30-inch reinforced concrete drainage pipe through the levee, 10 feet below the crown. Concrete U-shaped headwall on the waterside (WS) end. Two corrugated metal cutoff walls. Flap gate on the WS end. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 5.12)]. FS Date: 9/5/2013						

Photo 3 of 3 : UCIP_SP_2018_23060_39182.jpg



Concrete U-shaped headwall and flapgate visible on WS toe.

LM Start	5.24	Rating **	N	Issue No.	29
LM End	5.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.675099 °	37.675099 °
				-121.269264 °	-121.269264 °
DWR ID	DWR_RD2085_01_f_2015_29				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD2085_113_29_20180305_00022.jpg



View of the tree stump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.70	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	0.01	Rating **	A	Issue No.	1
LM End	0.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.705012 °	37.705012 °
				-121.274606 °	-121.274606 °
DWR ID	DWR_RD2085_02_s_2018_1				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation control on the levee slopes.					

Photo 1 of 1 : SP_2018_RD2085_114_1_20180309_00001.jpg



View of the acceptable vegetation on the levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.680463 °	37.680463 °
				-121.264628 °	-121.264628 °
DWR ID	DWR_RD2085_03_s_2018_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation control on the levee slopes.					

Photo 1 of 1 : SP_2018_RD2085_115_2_20180309_00004.jpg



View of the acceptable vegetation on the levee slope.

LM Start	0.21	Rating **	U	Issue No.	1
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.682798 °	37.683052 °
				-121.262059 °	-121.261851 °
DWR ID	DWR_RD2085_03_s_2014_1				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.					

Photo 1 of 3 : SP_2018_RD2085_115_1_20180305_00001.jpg



View of the erosion at the waterside levee toe. Spring 2017.

LM Start	0.21	Rating **	U	Issue No.	1 (cont)
LM End	0.23	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2018_RD2085_115_1_20180305_00002.jpg



View of the erosion at the waterside levee toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2085 Kasson

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 San Joaquin River		0.29	03/09/2018 03/09/2018	Maksim Khashchuk

LM Start	0.21	Rating **	U	Issue No.	1 (cont)	
LM End	0.23	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.682798 °		37.683052 °
				-121.262059 °		-121.261851 °
DWR ID	DWR_RD2085_03_s_2014_1					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion of the waterside levee slope has been observed. The erosion is about 3 feet tall vertical from the slope to the base of projected levee toe.						

Photo 3 of 3 : SP_2018_RD2085_115_1_20180305_00003.jpg



View of the erosion at the waterside levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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